



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Sacramento/San Joaquin Estuary Fishery Resource Office

4001 North Wilson Way, Stockton, CA 95205-2486

209-946-6400 (Voice) 209-946-6355 (Fax)

Dr. Robert B. Spies  
Applied Marine Sciences  
4749 Bennett Drive Suite L  
Livermore, CA

Dr. Spies,

This letter is to voice support for the type of proposed work that you outlined via telephone and email, entitled "Effects of Contaminants in the Catchment of the San Francisco Bay Estuary on Reproductive Success of Adult, and Health and Fitness of juvenile Chinook Salmon (*Oncorhynchus tshawytscha*)". In my experience I have found a significant gap in information relating to the effects of contaminants and toxics on fishes in the Sacramento-San Joaquin Rivers and Delta. This information may be helpful in determining the mechanisms behind the juvenile chinook survival estimates that we generate in our ongoing studies.

Provided that the necessary take permits are provided by you, we would be happy to allow your study to "piggy back" on our standard monitoring efforts throughout the delta, as a means of cost-effectively collecting juvenile chinook for your analyses. I would appreciate a copy of your proposal once it is finalized.

Mark Pierce  
Supervisory Fishery Biologist

OPTIONAL FORM 99 (7-90)

### FAX TRANSMITTAL

# of pages = 1

To <u>Dr. R.B. Spies</u>	From <u>Mark Pierce</u>
Dept./Agency	Phone # <u>209 946 6400 309</u>
Fax # <u>925 373 7834</u>	Fax #

NSN 7540-01-317-7368

5099-101

GENERAL SERVICES ADMINISTRATION



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southwest Fisheries Science Center  
Tiburon Laboratory  
3150 Paradise Drive  
Tiburon, California 94920

14 Apr 1999

F/SWC3:RBM

MEMORANDUM FOR: CALFED

FROM:

R. Bruce MacFarlane, Ph.D.  
Research Fishery Biologist

SUBJECT:

Proposal by Spies et al. for salmon - contaminant research

The proposal, "Effects of Contaminants in the Catchment of the San Francisco Bay Estuary on Reproductive Success of Adults and Health and Fitness of Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*)" is designed to address an important, but largely unknown, aspect of the Central Valley - San Francisco Estuary ecosystem. This is among the most agricultural and urbanized systems in the country, if not the world, thus subject to significant quantities of contaminants from virtually all sectors of society. Additionally, this ecosystem provides a home for a unique community of chinook salmon, a resource of great socioeconomic status. This is the only system containing four runs of chinook salmon, all of which are experiencing declines in natural production for a variety of reasons, some known (e.g., loss of habitat behind dams) and others unknown. The effects of contaminant exposure to salmon reproduction in this system is one of the unknown factors. Final stages of maturation during the upstream spawning migration are among the most stressful stages to any anadromous fish, and in particular semelparous, or one-time, spawners. The literature clearly shows that contaminant exposure during this stage can result in lowered reproductive success.

Our research has documented contaminant concentrations in outmigrating juveniles since 1995, but has not investigated the exposure or effects to adults. This work needs to be done to better understand the contribution of contaminants to the decline of these federally ESA-listed or candidate chinook salmon runs. The collaborators on this proposal are all well-qualified to do the work and will improve our knowledge of contaminant effects.

To the extent possible, we offer our assistance in collecting adult salmon for their research. Personnel from their project are welcome to join us on our salmon collection cruises on a space available basis (often the case). We have proposed a study of the biology and ecology of juvenile and immature salmonids in the coastal waters of California for FY 2000 and beyond to National Marine Fisheries Service (NMFS). This is a natural extension of our previous and current work that focuses on juvenile development within the estuary, and is likely to be supported since research on the influences of ocean processes on salmon growth and survival is in the forefront of NMFS Office of Protected Resources research priorities.



The requested supporting letter from the California Department of Fish and Game to allow collection of entrained salmon from several pumping facilities in the delta has been delayed until they review the full proposal. They have expressed interest in the objectives of proposal, which will entail collecting small numbers of entrained juvenile fall-run chinook salmon (20 fish). We anticipate departmental support for our proposal following their review.

APPLIED  
*marine*  
SCIENCES

April 12, 1999

San Mateo County Planning Department  
590 Hamilton Street  
Redwood City, CA 94063

To Whom It May Concern:

A consortium of University (UC Davis), government (USFW), and private (Applied Marine Sciences, Inc.) researchers are currently applying for CALFED funding to study effects of contaminants on Chinook salmon. CALFED requires that all proposals include notification to the counties that are within the geographic scope of the proposed research, and also requires notification of the Delta Protection Commission, and the Bay Conservation and Development Commission. This letter is intended to serve as this notification.

The research that we are proposing may elucidate potential contaminant effects on various life stages of Chinook salmon. Our aim is to be able to provide information to resource managers that will allow refinement of current management practices affecting Chinook, and by extension, other fish populations that are currently in decline. The geographic scope of our study includes much of the Sacramento/San Joaquin river system, the San Francisco Bay/Delta, and the nearshore ocean out to the Farallon islands.

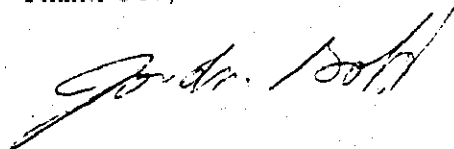
Any questions that you may have concerning our proposed research may be addressed to:

Dr. Gary Marty  
1 Shields Avenue  
School of Veterinary Medicine  
Department of Anatomy, Physiology, and  
Cell Biology  
University of California  
Davis, CA 95616  
Phone: (530) 754-8062  
Fax: (530) 752-7690

or,

Jordan Gold  
Applied Marine Sciences, Inc.  
4749 Bennett Dr. Suite L  
Livermore, CA 94550  
Phone: (925) 373-7142  
Fax: (925) 373-7834

Thank You,



Jordan Gold  
Marine Biologist

JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Santa Clara County Planning Department  
70 W. Hedding Street  
San Jose, CA 95110

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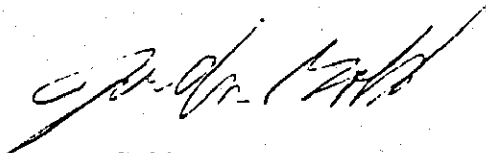
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April 12, 1999

Solano County Planning Department  
601 Texas Street  
Fairfield, CA 94533

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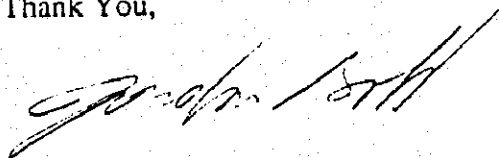
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Jordan Gold  
Marine Biologist

JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Sacramento County Planning Department  
827 Seventh Street  
Sacramento, CA 95814

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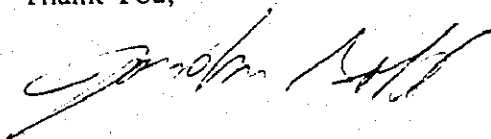
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SCIENCES

April 12, 1999

Yolo County Planning Department  
292 West Deamer  
Woodland, CA 95695

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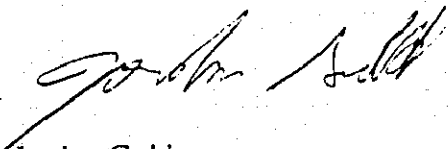
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JG/dts





APPLIED  
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SCIENCES

April 12, 1999

Colusa County Planning Department  
220 12th Street  
Colusa, CA 95932

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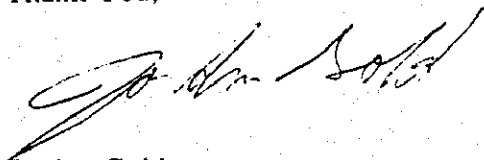
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JG/dts



April 12, 1999

Sutter County Planning Department  
1160 Civic Center Blvd.  
Yuba City, CA 95993-3007

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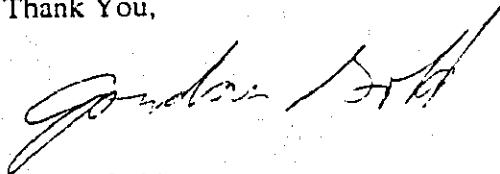
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A P P L I E D  
*marine*  
S C I E N C E S

April 12, 1999

Glenn County Planning Department  
125 S. Murdock Avenue  
Willows, CA 95988

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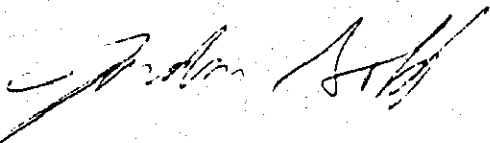
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Marine Biologist

JG/dts



A P P L I E D  
*marine*  
S C I E N C E S

April 12, 1999

Butte County Planning Department  
7 County Center Drive  
Oroville, CA 95965-3334

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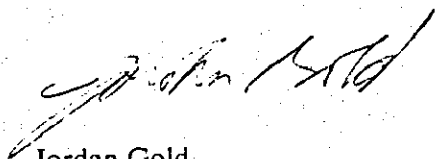
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Thank You,



Jordan Gold  
Marine Biologist

JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Tehama County Planning Department  
444 Oak Street, Courthouse Annex, Rm I  
Red Bluff, CA 96080

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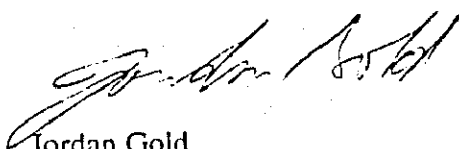
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*marine*  
SCIENCES

April 12, 1999

Shasta County Planning Department  
1855 Placer Street  
Redding, CA 96001-1759

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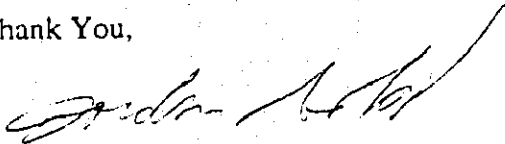
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April 12, 1999

Marin County Planning Department  
3501 Civic Center, 308  
San Rafael, CA 94903-4157

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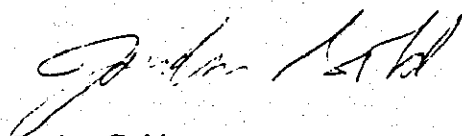
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A P P L I E D  
*marine*  
S C I E N C E S

April 12, 1999

Sonoma County Planning Department  
2550 Ventura Avenue  
Santa Rosa, CA 95403

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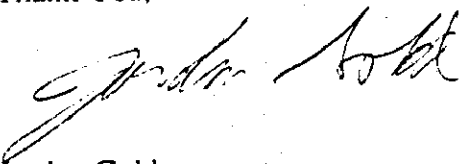
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Marine Biologist

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APPLIED  
*marine*  
SCIENCES

April 12, 1999

Napa County Planning Department  
1195 3rd Street, 2nd Floor, Room 210  
Napa, CA 94559

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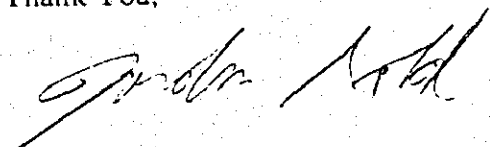
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Dr. Gary Marty  
1 Shields Avenue  
School of Veterinary Medicine  
Department of Anatomy, Physiology, and  
Cell Biology  
University of California  
Davis, CA 95616  
Phone: (530) 754-8062  
Fax: (530) 752-7690

or,

Jordan Gold  
Applied Marine Sciences, Inc.  
4749 Bennett Dr. Suite L  
Livermore, CA 94550  
Phone: (925) 373-7142  
Fax: (925) 373-7834

Thank You,



Jordan Gold  
Marine Biologist

JG/dts



April 12, 1999

Santa Cruz County Planning Department  
701 Ocean Street  
Santa Cruz, CA 95060

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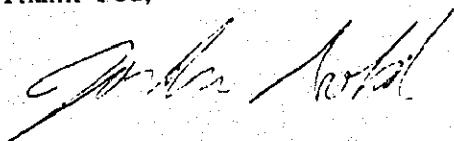
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April 12, 1999

San Joaquin County Planning Department  
1810 East Hazelton  
Stockton, CA 95205

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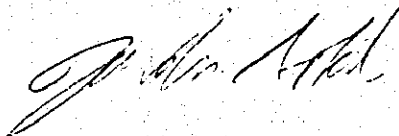
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JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Stanislaus County Planning Department  
1101 H Street  
Modesto, CA 95354

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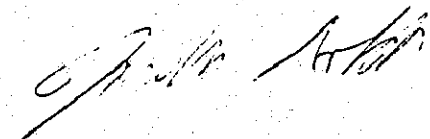
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JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Merced County Planning Department  
2222 M Street  
Merced, CA 95340

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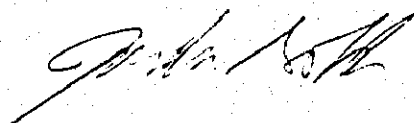
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JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Madera County Planning Department  
135 West Yosemite Avenue  
Madera, CA 93637

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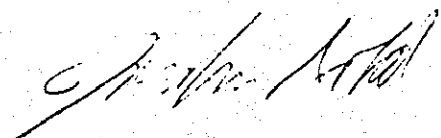
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APPLIED

*marine*

SCIENCES

April 12, 1999

Fresno County Planning Department  
2220 Tulare Street, 6th Floor  
Fresno, CA 93721

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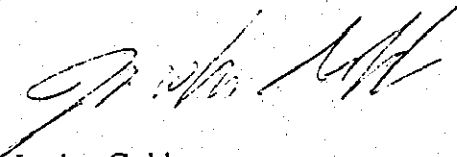
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JG/dts



APPLIED

*marine*

SCIENCES

April 12, 1999

Kings County Planning Department  
1400 W. Lacey Blvd.  
Hanford, CA 93230

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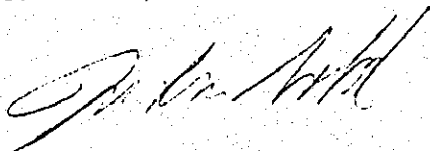
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APPLIED  
*marine*  
SCIENCES

April 12, 1999

Alameda County Board of Supervisors  
1212 Oak Street, Room 512  
Oakland, CA 94612

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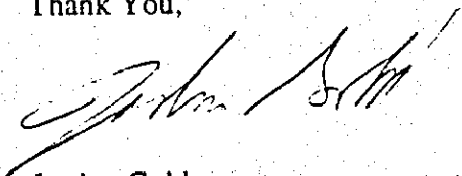
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SCIENCES

April 12, 1999

San Mateo County Board of Supervisors  
400 County Center  
Redwood City, CA 94063

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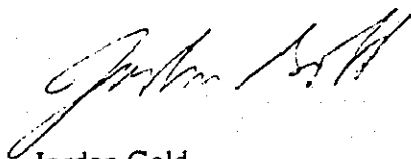
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*marine*  
SCIENCES

April 12, 1999

Santa Clara County Board of Supervisors  
70 West Hedding Street, 10th Floor  
San Jose, CA 95110

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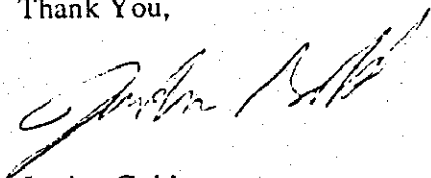
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*marine*  
SCIENCES

April 12, 1999

Solano County Board of Supervisors  
580 Texas Street  
Fairfield, CA 94533

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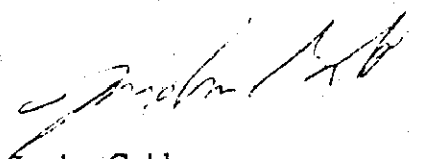
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SCIENCES

April 12, 1999

Sacramento County Board of Supervisors  
700 H Street, Room 2450  
Sacramento, CA 95814

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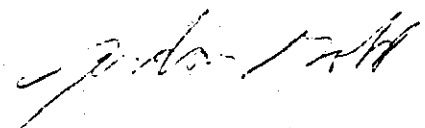
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*marine*  
SCIENCES

April 12, 1999

Yolo County Board of Supervisors  
625 Court Street, Room 204  
Woodland, CA 95695

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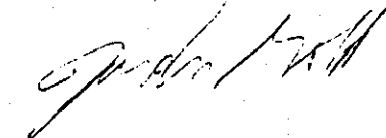
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SCIENCES

April 12, 1999

Colusa County Board of Supervisors  
546 Jay Street  
Colusa, CA 95932

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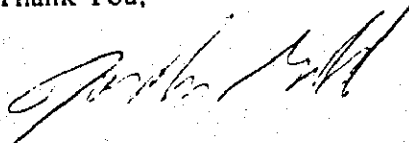
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JG/dts



A P P L I E D

*marine*

S C I E N C E S

April 12, 1999

Sutter City County Board of Supervisors  
11520 Maidu Avenue  
Nevada City, CA 95959-8617

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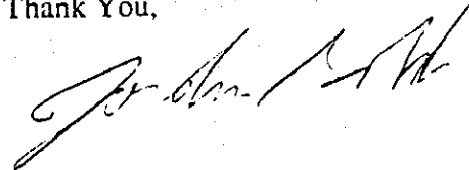
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1 Shields Avenue  
School of Veterinary Medicine  
Department of Anatomy, Physiology, and  
Cell Biology  
University of California  
Davis, CA 95616  
Phone: (530) 754-8062  
Fax: (530) 752-7690

or,

Jordan Gold  
Applied Marine Sciences, Inc.  
4749 Bennett Dr. Suite L  
Livermore, CA 94550  
Phone: (925) 373-7142  
Fax: (925) 373-7834

Thank You,



Jordan Gold  
Marine Biologist

JG/dts





A P P L I E D  
*marine*  
S C I E N C E S

April 12, 1999

Glenn County Board of Supervisors  
P.O. Box 391  
Willows, CA 95988

To Whom It May Concern:

A consortium of University (UC Davis), government (USFW), and private (Applied Marine Sciences, Inc.) researchers are currently applying for CALFED funding to study effects of contaminants on Chinook salmon. CALFED requires that all proposals include notification to the counties that are within the geographic scope of the proposed research, and also requires notification of the Delta Protection Commission, and the Bay Conservation and Development Commission. This letter is intended to serve as this notification.

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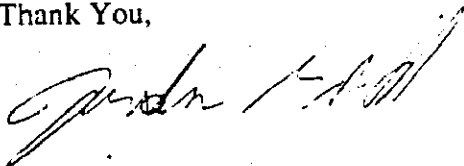
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JG/dts



APPLIED

*marine*

SCIENCES

April 12, 1999

Butte County Board of Supervisors  
25 County Center Drive  
Oroville, CA 95965

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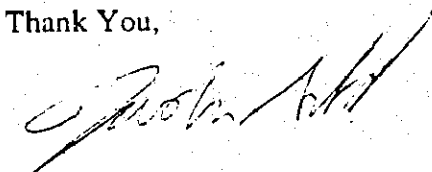
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JG/dts



A P P L I E D  
*marine*  
S C I E N C E S

April 12, 1999

Tehama County Board of Supervisors  
P.O. Box 250  
Red Bluff, CA 96080

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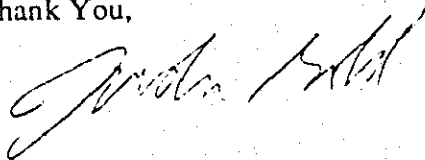
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APPLIED

*marine*

SCIENCES

April 12, 1999

Shasta County Board of Supervisors  
1815 Yuba Street  
Redding, CA 96001

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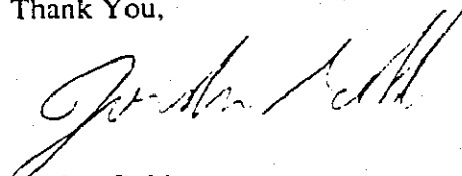
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Marine Biologist

JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Marin County Board of Supervisors  
3501 Civic Center Drive, Suite 329  
San Rafael, CA 95403

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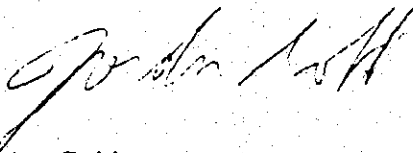
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JG/dts



UNAPPLIED  
*marine*  
SCIENCES

April 12, 1999

Sonoma County Board of Supervisors  
575 Administration Drive, Room 100  
Santa Rosa, CA 95403

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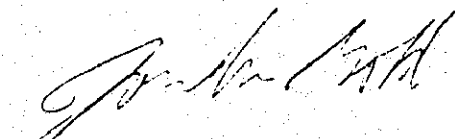
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Jordan Gold  
Marine Biologist

JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Napa County Board of Supervisors  
1195 3rd Street, 3rd Floor, Room 310  
Napa, CA 94559

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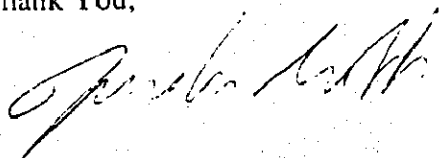
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JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Santa Cruz County Board of Supervisors  
701 Ocean Street, Room 500  
Santa Cruz, CA 95060

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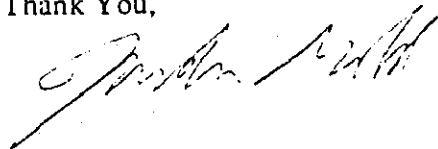
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Jordan Gold  
Marine Biologist

JG/dts





April 12, 1999

San Joaquin County Board of Supervisors  
222 East Weber Avenue, Room 701  
Stockton, CA 95202

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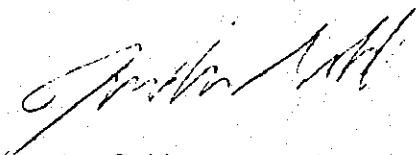
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Marine Biologist

JG/dts



APPLIED

*marine*  
SCIENCES

April 12, 1999

Stanislaus County Board of Supervisors  
1100 H Street, 2nd Floor  
Modesto, CA 95354

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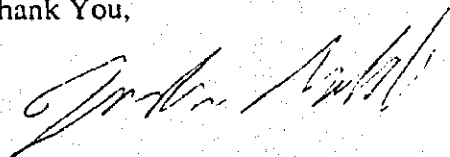
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JG/dts



APPLIED  
*marine*  
SCIENCES

April 12, 1999

Merced County Board of Supervisors  
2222 M Street  
Merced, CA 95340

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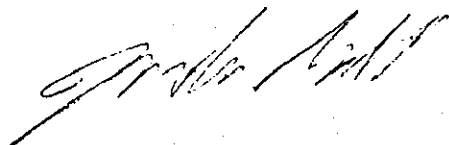
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Jordan Gold  
Marine Biologist

JG/dts



April 12, 1999

Madera County Board of Supervisors  
209 West Yosemite  
Madera, CA 93637

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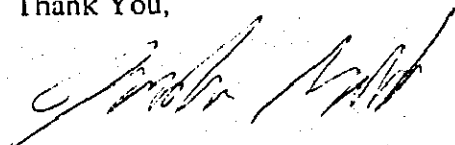
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Jordan Gold  
Marine Biologist

JG/dts



Fresno County Board of Supervisors  
2281 Tulare Street, Room 301  
Fresno, CA. 93721

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*John Bull*

JG/dts



April 12, 1999

Kings County Board of Supervisors  
1400 W. Lacey Blvd.  
Hanford, CA 93230

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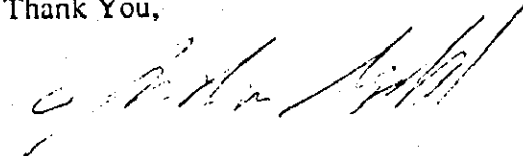
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April 12, 1999

Delta Protection Commission  
14215 River Road  
P.O. Box 530  
Walnut Grove, CA 94102

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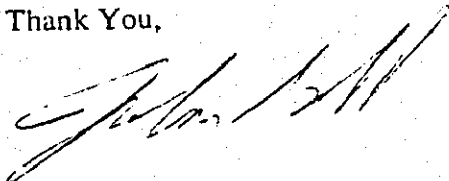
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April 12, 1999

Bay Conservation and Development Commission  
30 Van Ness Avenue, Room 2011  
San Francisco, CA 94102

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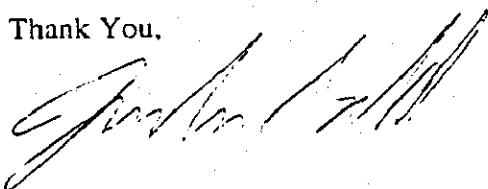
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Thank You,



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